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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Gregory, R.J. et al.	Group Art Unit: 1812
Serial No.: 08/087,132	Examiner: Karen Cochrane Carlson
Filed: July 2, 1993	Attorney Docket No.: IGI-012CN

***VIA HAND DELIVERY***

**INFORMATION DISCLOSURE STATEMENT**

**RECEIVED**

Honorable Commissioner  
of Patents and Trademarks  
Washington, D.C. 20231

OCT 27 1993 C.S.

GROUP 180

Dear Sir:

Applicants and their attorney are aware of the following publications and information, listed on the attached PTO Form 1449, and in accordance with 37 CFR §1.97 hereby submit these publications for the Examiner's consideration. A complete copy of each cited publication is enclosed for the Examiner's convenience. Following is a list of the cited publications.

**U.S. Patents**

United States Patent No. 5,240,846 (Collins, F.S. et al., August 31, 1993);  
United States Patent No. 4,322,274 (Wilson, G.B. et al., March 30, 1982);

**Publications**

Welsh, M.J. and Smith, A.E. (1993) "Molecular Mechanisms of CFTR Chloride Channel Dysfunction in Cystic Fibrosis" *Cell* 73:1251-1254;

Teem, J.L. et al. (1993) "Identification of Revertants for the Cystic Fibrosis  $\Delta$  F508 Mutation Using STE6-CFTR Chimeras in yeast" *Cell* 73:335-346;

Kartner, N. et al. (1992) "Mislocalization of  $\Delta$ F508 CFTR in Cystic Fibrosis Sweat Gland" *Nature Genetics* 1:321-327;

Yoshimura, K. et al. (1992) "Expression of the Human Cystic Fibrosis Transmembrane Conductance Regulator Gene in the Mouse Lung After In Vivo Intratracheal Plasmid-Mediated Gene Transfer" *Nucleic Acids Res.* 20(12):3233-3240;

Bear, C.E. et al. (1992) "Purification and Functional Reconstitution of the Cystic Fibrosis Transmembrane Conductance Regulator" *Cell* 68:809-818;

Ostedgaard, L.S. and Welsh, M.J. (1992) "Partial Purification of the Cystic Fibrosis Transmembrane Conductance Regulator" *J. Biol. Chem.* 267(36):21142-26149;

Rosenfeld, M.A. et al. (1992) "In Vivo Transfer of the Human Cystic Fibrosis Transmembrane Conductance Regulator Gene to the Airway Epithelium" *Cell* 68:143-155;

Denning, G.M. et al. (1992) "Abnormal Localization of Cystic Fibrosis Transmembrane Conductance Regulator in Primary Cultures of Cystic Fibrosis Airway Epithelia" *J. Cell Biol.* 118(3):551-559;

Smith, A.E. (1992) "Emerging Therapies for Cystic Fibrosis" Section V-Topics in Biology in *Ann. Rep. Med. Chem.* 27:235-243;

Welsh, M.J. et al. (1992) "Cystic Fibrosis Transmembrane Conductance Regulator: A Chloride Channel with Novel Regulation" *Neuron* 8:821-829;

Rosenfeld, M.A. et al. (1991) "In Vivo Transfer of the Human Cystic Fibrosis Gene to the Respiratory Epithelium" *Clin. Res.* 39(2):311A;

Dork, T. et al. (1991) "Cystic Fibrosis with Three Mutations in the Cystic Fibrosis Transmembrane Conductance Regulator Gene" *Human Genetics* 87:441-446;

Drumm, M.L. et al. (1991) "Chloride Conductance Expressed by ΔF508 and Other Mutant CFTRs in Xenopus Oocytes" *Science* 254:1797-1799;

Dalemans, W. et al. (1991) "Altered Chloride Ion Channel Kinetics Associated with the ΔF508 Cystic Fibrosis Mutation" *Nature* 354:526-528;

Gregory, R.J. et al. (1990) "Expression and Characterization of the Cystic Fibrosis Transmembrane Conductance Regulator" *Nature* 347:382-386;

Drumm, M.L. et al. (1990) "Correction of the Cystic Fibrosis Defect *In Vitro* by Retrovirus Mediated Gene Transfer" *Cell* 62:1227-1233;

Rich, D.P. et al. (1990) "Expression of the Cystic Fibrosis Transmembrane Conductance Regulator Corrects Defective Chloride Ion Channel Regulation in Cystic Fibrosis Airway Epithelial Cells" *Nature* 347:358-363;

Rommens, J.H. et al. (1989) "Characterization of the Cystic Fibrosis Gene: Chromosome Walking and Jumping" *Science* 245: 1059-1065;

Riordan, J. et al. (1989) "Identification of the Cystic Fibrosis Gene: Cloning and Characterization of the Complementary DNA" *Science* 245:1066-1073;

Kerem, B-S. et al. (1989) "Identification of the Cystic Fibrosis Gene: Genetic Analysis" *Science* 245:1073-1080;

Dorin, J.R. et al. (1987) "A Clue to the Basic Defect in Cystic Fibrosis from Cloning the CF Antigen Gene" *Nature* 326(9):614-617.

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, the Applicants understand that the Examiner will make an independent evaluation of the cited publications.

No additional costs are believed to be due in connection with the filing of this disclosure. However, please charge any necessary fees to our Deposit Order Account No. 12-0080. A duplicate of this disclosure is submitted for that purpose.

Respectfully submitted,

LAHIVE & COCKFIELD



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